

FAYN, S. B., TAUGLIKH.

UDC: 51:621.391

"Some Questions of the Structure of the System of Residual Classes in Quadratic Fields"

Tr. Vychisl. tsentra AN GruzSSR (Works of the Computing Center of the Academy of Sciences of the Georgian SSR), 1972, 11, No. 1 pp 151-171 (from RZh-Kibernetika, No. 8, Aug 72, Abstract No 8V501)

Translation: The paper deals with the system of residual classes in quadratic fields, and verifies the properties of

 $A = \{\alpha_1, \alpha_2, \ldots, \alpha_{l-1}, s_l, \alpha_{l+1}, \ldots, \alpha_n\},\$

where sj runs through the system of absolutely least residues with respect to a simple modulus of m; when j runs through the values 1, 2..., $|R(m_i)|$. $|R(m_i)|$ is the norm of the number m_i , a_k is the figure to the base mk representing the number A in the 1/1

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FAYN, S. B., TAUGLIKH, G. L.

UDC: 51:621.391

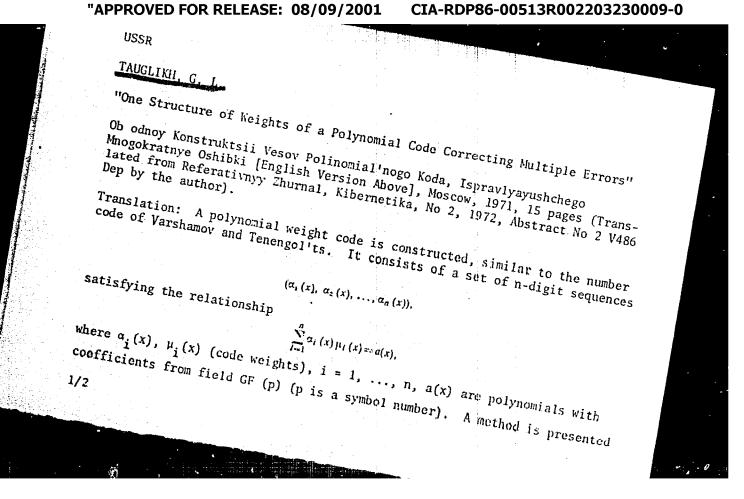
"Correction of Group Errors in Binary Residual Codes"

Tr. Vychisl. tsentra AN GruzSSR (Works of the Computing Center of the Academy of Sciences of the Georgian SSR), 1972, 11, No. 1, pp 172-185 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V502)

Translation: It is pointed out that better use can be made of the redundancy of binary codes in the system of residual classes. It is stated that homogeneous requirements can be made on the reliability of binary elements by orientation on the rank of the system of residual classes of the greatest length. A comparison is drawn between the real and polynomial systems of residual classes, and the correcting possibilities of polynomial codes are studied. V. Dyn'kin.

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- 36 -



USSR

TAUGLIKH, G. L., Ob odnoy Konstruktsii Vesov Polinomial'nogo Koda, Ispravlyayushchego Mnogokratnye Oshibki, Moscow, 1971, 15 pages.

of constructing weights of a code correcting m > 2 errors (an error refers to any distortion occurring in a digit of the code sequence).

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UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--ELECTROPHYSICAL AND PHOTOELECTRIC PROPERTIES OF THIN FILM SYSTEMS

OF TETRATHIOTETRACENE -UAUTHOR-(02)-SILINS, E., TAURE, L.

COUNTRY OF INFO--USSR

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"

UNCLASSIFIED PROCESSING DATE--300CT70 2/3 038 CIRC ACCESSION NO--APO119563 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE LAYERED THIN FILM SYSTEMS OF TETRATHIOTETRACENE (I) INVESTIGATED WERE REPRESENTED BY THE FOLLOWING SNO SUB2 (IIPB, AU(I)AL, AU(I)AU, AND AL(IIAL. TO PREP. THE SNO SUB2 (I)PB SPECIMENS WERE PREPD BY VACUUM DEPUSITION. CELL, A LAYER OF I WAS DEPUSITED ON A LAYER OF SNO. SUB2 ON A GLASS PLATE, FOLLOWED BY DEPOSITING THE TOP PB ELECTRODE. TO PREP. THE AU(I)AL CELL, A QUARTZ PLATE WAS FITTED SUCCESSIVELY WITH A SEMI TRANSPARENT AU FILM (SERVING AS THE BOTOOM ELECTRODE), 3 LAYERS OF DIFFERENT THICKNESSES (0.2-1.1 MU) OF I, AND TOP SEMI TRANSPARENT AL FOR BOTH AU(I)AL AND SNO SUB2 (I)PB ELECTRODES (AREA 5-10 MM PRIME2). SPECIMENS, NONSYM, NONLINEAR CURRENT APPLIED VOLTAGE (U SUBO) CHARACTERISTICS OF THE DARK COND. WERE OBTAINED. THE POS. DIRECTION OF CURRENT FLOW CORRESPONDED TO NEG. POLARITY OF THE TUP ELECTRODE IN BOTH THE POS. C.D. WAS 10 PRIME NEGATIVES-10 PRIME NEGATIVES A-CM CASES. PRIMEZ AT U SUBO EQUALS 3 V. A PHOTOCURRENT AND A PHOTOEME. WERE ALSO OBSO.: THE PHOTOEME. HAD ITS NEG. POLE ALWAYS AT THE TOP ELECTRODE INDEPENDENTLY OF THE DIRECTION OF ILLUMINATION (THROUGH THE BOTTOM OR TOP ELECTRODE). ALSO, THE SYM. METAL (I) METAL SPECIMENS EXHIBITED A LOW THE RECTIFYING EFFECT AND THE PHOTOELEC. PROPERTIES WERE STUDIED USING MAINLY THE AU(I)AL SPECIMENS. THE PDS. DIRECTION CURRENT (I SUBR)-U SUBO DEPENDENCE INDICATES BY ITS SHAPE THAT THE RECTIFYING EFFECT IS GOVERNED BY THE SO CALLED CONTACT BARRIER MECHANISM (FORMATION OF A NEG. LAYER ON THE METAL-ORG. COMPO. CONTACT).

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3/3 038 UNICERC ACCESSION NO--APO119563

UNCLASSIFIED PROCESSING DATE--300CT70

ABSTRACT/EXTRACT--THE ENERGY OF ACTIVATION FOR DARK COND. IN THE POS. DIRECTION (E SUBR) FO, THE AUIIIAL SPECIMENS DROPPED ON DECREASING U SUBO, WHEREAS THE ENERGY FOR THE NEG. DIRECTION REMAINED CONST. I SUBR FOLLOWS THE RELATION I SUBR EQUALS A EXP(MINUS E SUBR-KT), WHERE T IS THE ABS. TEMP., AND A AND K ARE CONSTS. IN THE NEG. DIRECTION, A SHARP INCREASE IN REVERSE CURRENT (RESEMBLING A NEG. LAYER BREAKDOWN OF ITS KIND) WAS OBSD. AT COMPARATIVELY LOW U SUBO VALUES (GREATER THAN 2V). THE PHOTOEME. OF THE AUCIDAL SPECIMENS ON ILLUMINATION THROUGH THE TOP ELECTRODE PLOTTED VS. THE WAVELENGTH OF THE LIGHT APPLIED SHOWED A CORRELATION WITH THE ABSORPTION ELECTRON SPECTRUM OF SOLID STATE I IN THE LONG WAVELENGTH OF THE LIGHT APPLIED SHOWED A CORRELATION WITH THE ABSORPTION ELECTRON SPECTRUM OF SOLID STATE I IN THE LONG WAVELENGTH REGION AND DROPPED MONOTONICALLY IN THE LONG WAVELENGTH REGION, WHEREAS THE PHOTOEMF. UBTAINED ON ILLUMINATION THROUGH THE BOTTOM ELECTRODE SHOWED "ANTICORRELATION" SIGNS WHEN COMPARED WITH THE ABSORPTION SPECTRUM IN ITS SHORT WAVELENGTH REGION (THERE WERE MIN. OF PHOTOEME. AT MAX. OF ABSORPTION). THE DEPENDENCES SHOW THAT THE POTENTIAL BARRIER APPEARS AT THE I TOP ELECTRODE INTERFACE. THE NATURE OF THE POTENTIAL BARRIER IS DISCUSSED. A BAND SCHEME OF A METALLIMETAL SPECIMEN IN THE TOP ELECTRODE REGION, AN ENERGY SCHEME OF POLAR STATES OF A 1 CRYSTAL. AND A SCHEME REPRESENTING THE ENERGY LEVELS OF NEUTRAL EXCITED STATES OF A I MOL. ARE PRESENTED. FACILITY: FIZ. ENERG. INST., RIGA, USSR.

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3

USSR

UDC 535.215.1

ALSESANDROV, S.B., BALODE, D.R., BELKIND, A.I., NETLAND, O.YA., RAYSEUMA, I.K., SILIN'SH, E.A., TAURE, L.F.

"Photoelectronic Properties And Energy Structure Of Transbisbindonilen"

V ab. Poluprovedniki i ikh primeneniye v elektrotekh. (Semiconductors And Their Application To Electrical Engineering-Collection Of Works), No 5, Riga, "Zinatne," 1971, pp 221-230 (from RZh:Elektronika i yeye primeneniye, No 2, Feb 72, Abstract No 2A20)

Translation: The results are discussed of a study by the method of photoconductivity and photoelectronic emission of the properties of a thin film system of transhisbindonilen. Possible mechanisms are considered of photoproduction of charge carriers, and an energy scheme of a molecular crystal of transhisbindonilen is proposed. 8 ill. 10 ref.

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535.215.4;535.215.6;541.67

SILEISH, E. A. and TAURE, Lar., Physico-Energetic Institute of the Academy of Sciences of the Lawrent SER (Fisiko-energeticheskiy institut AM Latv. SER)

"Studying Some of the Electrophysical and Photoelectric Properties of Tetrathiotetracene Thin Layer Systems"

Riga, Izvestiya Akademii Mauk Latviyskoy SSR: Seriya Fizicheskikh i Tekhnicheskikh Nauk, No 1, 1970, pp 18-27

Abstract: The authors study the volt-ampere characteristic, oulk and contact conductivity activation energy, integral and spectral photoconductivity and photoelectromotive force, and the lux-ampere and lux-photoelectromotive force characteristics of tetrathiotetracene (MTT) thin-layer systems produced by the vacuum deposition method. The TTT preparation used by the authors was synthesized by Ya. F. Freymanis using C. Marschalk's and C. Stumm's mothod. The TT was purified by multiple recrystallization and subsequent sublimation in a vacuum. Two types of units are studied: SnO2/TTT/Pb and Au/TTT/Al, Au/TTT/Au, or Al/TTT/Al (see figura).

All basic electrophysical parameters were measured in a p 10-5 torr vacuum with 1/3

CIA-RDP86-00513R002203230009-0" APPROVED FOR RELEASE: 08/09/2001

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SILINSH, E. A. and TAURE, L. F., Izvestiya Akademii Nauk Latviyskov SSR: Seriya Fizicheskikh i Tekhnicheskikh Nauk, No 1, 1970, pp 18-27

some compared to measurement results obtained in air. The SFM-1 monochromatic illuminator was used for measuring the photoelectric characteristic. The Au/TTF/Al and SnO2/TTT/Pb thin layer systems exhibit nonsymmetric, nonlinear volt-supere dark conductivity characteristics. The direction of easy flow corresponds to the positive polarity of the lower electrode (SnO2;Au) and negative polarity corresponds to the upper electrode (Pb;Al). The rectification factor for the given systems is k=102-104v. Current density for the direction of easy flow at a voltage potential of $U_0=3v$ approaches $j_r=10^{-4}-10^{-3}$ amp/cm². The given thin-layer systems exhibit both photocurrent and photo-emf. The photo-emf is always of negative polarity at the upper electrode independent of whether illumination is conducted through the upper or lower electrode of the specimen. Symmetric volt-ampere characteristics were observed only for the Au/TTT/Au systems. The results show that TTT is an excellent model material for studying the effects of confact and surface properties on the dark photoconductivity machanism of thin-layer, low-molecular organic semiconductors because of its relatively low specific resistance. Type Mc/TTT/Me and SnO /TTT/He systems form a surface exhaustion layer under the upper electrode. The primary parameters of this layer are determined. The authors also consider a possible mechanism responsible for the formation of the surface exhaustion layer 2/3

USSR

SILENSH, E. A. and TAURE, L. F., Izvestiya Akademii Nauk Latviyskoy SSI: Seriya Fizicheskikh i Tekhnicheskikh Nauk, No 1, 1970, pp 18-27

and its effect on the photogeneration of the charge carriers. The basic neutral and polar energy states of TTT are estimated. Mechanisms responsible for carrier charge photogeneration in TTT are considered. The authors express their thanks to Ya. F. Freymanis for synthesizing the TTT and D. F. Halode for assisting during the experiment.

3/3

USSR

UDC 621.3.032.35

MARKOVSKII, L. YA., TAUSHKANOVA, L. B., GLADKOVA, V. F., KONDRASHEV, YU. D.

"Interrelation between the Granulometric Composition of Zinc Sulfide-Cadmium Sulfide Luminophores and the Degree of Dispersion of the Original Zinc Sulfide-Cadmium Sulfide"

Leningrad, Russian, Zhurnal prikladnoi khimii, vol 46, No 7, July 73, pp 1430-1434

Abstract: The number of small particles in the luminophore ZnS-CdS (with Ag and NaCl) increased with increasing dispersion of both the ZnS and CdS, while the average grain size increased with decreasing specific volume of the sulfide powders. The ZnS affected the granulometric composition more than did the CdS. Electron micrographs of the 62% ZnS + 38% CdS product calcined at temperatures from 550 to 8000C show the increasing size of the grains with increasing calcination temperature.

1/1

- 13 -

USSR

TAUTS, M. I., SELIVANOVA, T. M., and SEMENENKO, V. Ye., Institute of Plant Physiology imeni K. A. Timiryazev, Academy of Sciences USSR, Moscow

"Interpretation of the Self-Stimulating Effect of Chlcrella Growth"

Moscow, Fiziologiya Rasteniy, Vol 18, No 1, Jan/Feb 71, pp 69-77

Abstract: The presence of indolyl-3-acetic acid in the extracellular metabolites of a bacteria-free culture of the thermophilic Chlorella sp. K strain was demonstrated on the basis of chromatographic analysis, determination of R_f of the spots in various solvent systems, fluorescence of the spots in ultraviolet light, color tests, UV spectra, and the effect of the growth regulator on wheat coleoptiles and algae. An unknown biologically active substance (or substances), probably of an indole nature, was also found. It was invariably present on the chromatograms, where it produced a wire range of color reactions. The indole compounds stimulated the growth of both algae and wheat coleoptiles, suggesting that hormones are involved in the processes of intracellular regulation. The physiological significance of the compounds in the activity of unicellular algae was confirmed by their positive response to exogenous indolyl-3-acetic acid.

1/2

- 17 -

USSR

TAUTS, M. I., et al., Fiziologiya Rasteniy, Vol 18, No 1, Jan/Feb 71, pp 69-77

The optimum concentration to stimulate cell division in the culture and to increase the culture's productivity varies with the physiological condition of the culture.

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WC 669.295

PERADZE, T. A., TAVADZE, F. N., Academician, Academy of Sciences, Georgian SSR, BLASHCHUK, V. YE., ONOPRIYENKO, L. M., and BOYEVA, G. YE.

"Corrosion Resistance of Titanium Alloys with Elevated Content of Oxygen in Hydrochloric and Sulfuric Acids"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, Vol 69, No 1, Jan 73, pp 109-112

Abstract: This work presents a study of the corrosion resistance of AK-3 alloys in hydrochloric and sulfuric acids. Specimens of the alloy were welded by an automatic argon-arc welding device with an infusible tungsten electrode, with subsequent annealing at 800° C for 30 minutes. The base metal and welded joint were tested for corrosion resistance in various concentrations of hydrochloric and sulfuric acids, test time 100 hours. In all cases, the welded joints showed corrosion rates similar to those of the base metal. The alloy Ti + 3% Al is less stable in the electrochemical respect than AK-3. Specimens of AK-3 alloy and its welded joints were also tested for resistance to corrosion cracking under stress in saturated solutions of NH₄Cl and CaCl₂ at the boiling point. Visual inspection and metallographic examination at 300 X magnification showed no cracks in the base metal or the welded seam.

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TAVADZE, F. N., MIKADZE, O. I., RUDOY, A. P., and MANDZHAGALADZE, S. N., Institute of Metallurgy, Academy of Sciences Georgian SSR

"Influence of Lanthanum and Yttrium on Corrosion Resistance of Chromium in Sulfuric Acid"

Metallovedeniye i Termicheskaya Obrabotka Metallov, No 2, 1974, pp 28-30

Abstract: This work presents a study of the influence of lanthanum and yttrium on the corrosion resistance of chromium in sulfuric acid at 20 and 100° C. The material used in the study was electrolytically refined chromium containing 0.006% N, 0.004% O, less than 0.04% Si, 0.005% Ni, 0.01% Fe, 0.006% Al, 0.002% S, 0.003% Cu. The content of the rem in the chromium alloys was 0.24-1.48% La, 0.28-2.83% Y. One peculiarity of the process of corrosion of chromium alloys with lanthanum and yttrium in sulfuric acid solutions is that the maximum rate is observed in the initial period of the test, with subsequent stabilization. Lanthanum and yttrium are anodic inclusions and are etched out in sulfuric acid. The structure of the matrix does not influence the corrosion resistance of the alloys of chromium in 50% sulfuric acid, but does in a 30% solution. The introduction of 0.28% Y to chromium activates the chromium, while 0.68% La does not damage its passivity at room temperature.

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- 30 --

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TAVADZE, F. N., Academician, Georgian Academy of Sciences, and POSTNIKOV, V. S., Professor of Physics and Fathematics, and GOHDIENKO, L. K., Doctor of Technical Sciences, Resp. Eds.

Analiticheskiye vozmozhnosti metods vnutrennego treniya (The Analytical Possibilities of the Internal Friction Method), Moscow, "Nauka," 1973, 195 pp

Translation of Annotation: Review articles of Soviet and foreign scholars who participated in the symposium devoted to "Analytical Possibilities of the Internal Friction Method" are presented. The symposium was held in Toilisi in October, 1971. The papers consider problems of research in relaxation processes in solid bodies, interaction between flux defects, phase transformations, superconductive exchanges, the mechanisms of internal friction (damping) and other questions. The collection is intended for researchers and practical metallurgists, specialists in solid state physics, and teachers and students at technical institutions of higher learning.

Table of Contents:				PA	GE 3
 Questions of Phenomenology MESHKOV, S. I., "Phenomenological Bases ROZOVSKIY, H. I., "Functional Levelling with a Memory" 	of of	the the	Internal State of	Friction Method"	5
1/4					19

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USSR		•	
TAVADZE, F. N., The Anal Moscow, "Nauka," 1973, 1	ytical Possibilities 95 pp	s of the Internal Frictio	on Kethod,
KON-SYU, YU. SOLOV'YEV, Hysteresis and In 2. Structural Defects LYUBOV, B. YA., "Some Tan Transferring Admit ZEGER, A., HORNUNG, V., Metals" DARINSKIY, B. M., and SKI Solutions" VERNER, A. D., and FIGUZO Solutions" GORDIENKO, L. K., "Quanti Aging of Metals" FLETHAM, P. and SPEERS, J	L. A., and KOVAL', Go the rmal Friction of Factor of the Internal extures" (FRG), "Investigation of RIPNIKOV, "Internal exture Evaluation of the Evaluation of the County (England) "Microses."	Polycrystalline Alloys" Friction Theory, Connect In Into Atomic Defects in Friction in Solid Displa I Friction in Solid Inject f the Effects of Substruct	ed to 35 39 cement 47 ction 54 ctural
in Grystalline Mat SARRAK, V. I., SUVOROVA, Internal Friction	s. O., and YAKOYLEV.		
2/4	IN IION		70

USSR

Moscow, "Nauka," 1973, 195 pp	∍thod
GLIKMAN, YE. E., and PIGUZOV, YU. V., "Intercrystal Internal Adsorption Additives and Internal Friction of Metallic Solid Solutions and Alloys Based on Them"	of
of Materials on Law Transfer of Dislocations and Purity	7 5
on Return to Electicity Walls Processing and Atom Additive	87 s
Crystals"	92
DARSAVELIDZE, G. SH., TSAREYSEVILI, G. V., and TAVADZE, F. N., "Investigation into the Nature of Anamolies in Elementary Semiconductors" GRIDNEY, S. A., PAVLOY, V. S., POSTNIKOV, V. S., and TUNNOV.	100 L-
Friction in Ferroal country!	rnal
Decay and Internal Frintian in Salisance, V. S., "Liquation	108
	122
ARBER, R. I., and KHARITONOVA, ZH. F., "Investigation of Phase Conversion via Data on Absorption of Energy from Elastic Oscillations"	ns
3/4	129

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"

USSR		
TAVADZE, F. N., The Ana Moscow, "Nauka," 1973,	lytical Possibilities of the Internal	Friction Method,
SHARSHAKOV, I. M., and Phase Conversion	I. S. PUSHKIN, "Internal Friction in N	on-Diffusion
DELORNE, J. F., and GOB Conversion"	N, P. F., (France) "Inelasticity and	Martensite 137
BADZOSHVILI, V. I., 2011	ZE, N. A., METREVELI, V. SH., and TAV.	ADZE, F. N.
Dislocation in S	TKOV, V. YA., "Study of Dynamic Proper	rties of
Friction of Meta	KHIN, I. V., and MILOSHENKO, V. YE.,	'Internal
· · · · · · · · · · · · · · · · · · ·	R M (4 DTM '1'A D A LIVIO TO LT 16.00	sfer" 170 ristics of
RISHTAL, M. A., and GOL	OVIN S A "Fatematic Field"	175
Internal Friction	CALCADO DE MOTO (130 Matametro), il i	ta Gained From
		178
/4		

WDC 620.17

TAVADZE F. N., GRIKUROV, G. N., TRANTSEVICH, YA. V., SUKHOTIN, A. M., AMTROPOV, N. P., and ROCATSKIY, A. L.

"Estimating the Strength of Materials and Their Welded Joints at Cryogenic Tenperatures by the Method of Testing Contour-Supported Disks for Flexure"

Kiev, Problemy Prochnosti, No 1, Jan 72, pp 109-112

Abstract: A description is given of the design of an attachment for a tensile testing machine for determining the strength of contour-supported disks by bending tests. Results are presented for the testing of basic sheet naterial and welded seams in the form of disks of the austenite-martensite class (steel of the SN-2A type) at temperatures of -196 and -253°C. The strength values were determined, and a comparative analysis of the obtained results with data concerning the strength of the basic metal and the welded seams was conducted. Study of the disks led to the conclusion that breakdown takes place at their point of contact with the punch in the zone of thermal influence. One table, 3 figures, 4 references.

1/1

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TAVADZE, F. N., Academician, Georgian Academy of Sciences, LANCHAVA, M. D., MIROTADZE, Sh. A., Academy of Sciences of the Georgian SSR, Institute of Metallurgy

"Selecting Heat-Treat Conditions for Iron Castings With Modular Graphite"

Tbilisi, Soobshcheniya, Akademii Nauk Gruzinskoy SSR, Vol 64, No 1, Oct 71, pp 121-124

Abstract: In an attempt to determine precisely the heat treatment conditions which give a predetermined microstructure, the authors studied rates of graphitization as a function of temperature and the cross section of castings of metal with the following chemical composition: C--3.3-3.5%, Si--2.4-2.4%, Mn--0.5-0.6%, P0.1-0.15%, S--0.01-0.012%, Mg--0.045-0.055% and the remainder Fe. The kinetics of graphitization was studied at 850, 900 and 950°C. The results show that the rate of graphitization of primary cementite is chiefly a function of temperature. The first stage of graphiti-

1/2

TAVADZE, F. N. et al., Soobshcheniya, AN GSSR, Oct 71, pp 121-124

zation should be done at 920-930°C. A study of the rate of graphitization of secondary cementite showed that wall thickness has an appreciable effect along with temperature and cross section. However, holding for 4-5 hours at 750 and 720°C results in satisfactory microstructure in all cases. Secondary cementite in iron with modular graphite in the cast state with no subsequent heat treatment is rapidly graphitized in contrast to normalized specimens; a reduction in the concentration of carbon and silicon noticeably reduces the rate of graphitization of secondary cementite. Three figures, one table, bibliography of three titles.

2/2

Steels

USSR

UDC 539.67

TAVADZE, F. N., ZOIDZE, N. A., BADZOSEVILI, V. I., METREVELI, V. SH., and GANIBASHVILI, V. I.

"The Effect of Boron on the Internal Friction and Mechanical Properties of CONGVR Steel"

Sb. "Vnutrenneye treniye v metallicheskikh materialakh" (Internal Friction in Metallic Materials), Moscow, Izd-vo "Nauka," 1970, pp 132-134

Abstract: It is shown that the addition of boron to OONGVR steel leads to an increase in strength, and reinforces the effect of heat treatment on "heredity." In samples containing boron, a preliminary deformation at room temperature increases the strength and yield stress after the χ - χ - χ - χ -transformations.

It is assumed that an increase in mechanical properties is related to the effect of boron on the formation of steel substructure. Certain recommendations are given on the practical use of boron for strengthening the effect of heat treatment on the "heredity" of alloyed steels. 2 figures.

1/1

UDC 539.67

TAVADZE, F. N., and MIKELADZE, A. G.

"Brittleness and Abnormal Internal Friction in Pure Iron"

Sb. "Vnutrenneye treniye v metallicheskikh materialakh" (Internal Friction in Metallic Materials), Moscow, Izd-vo "Nauka", 1970, pp 56-61

Abstract: Results are presented of an investigation of iron refined by non-crucible zone melting in a hydrogen atmosphere. The temperature dependence of internal friction in pure iron after annealing at more than 650°C, which differs from the curve of a sample annealed at less than 650°C, was studied in a magnetic field. An abnormal drop in damping decrement was observed at about 80°C. The abnormal internal friction is explained by a sharp decrease in the number of defects in the grain volume and appeared as the effect of directed ordering of impurity atoms in a magnetic field. 5 figures, 5 references.

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AR 0101973

Ref. Code: UR0000

USSR

UC: 669.017:539.219.3 JPRS: 50476

TAVADZE, F. N., ZOIDZE, N. A., BADZOSHVIL

"Interaction Between Interstitial Atoms and Dislocations in Chilled Steel"

V sb. Vzaimodeystviye, mezhdu dislokatsiyami i atomami primesey v met. i splavakh (Interaction between Dislocations and Impurity Atoms in Metals and Alloys-collection of works), Tula, 1969, 72-76 (from RZh-Metallurgiya, No 1, Jan 70, Abstract No 11176)

Translation: The authors consider the mechanisms of interaction between carbon atoms and dislocations with the formation of Snoek and Cotrell atmospheres, and also the effect which the tetragonality of martensite has on the characteristics of this interaction. Authors' abstract.

EB

18

UDC 581.192+63.3.11

TAVADZE, T. Y. and BUDNITSKAYA, Ye. V., Institute of Biochemistry, Academy of

"Change in the Content of Total Protein and Nitrogen During the Ontogenesis of Wheat Varieties Resistant to Brown Rust Infection and Those Susceptible

Moscow, Prikladnaya Biokhimiya i Mikrobiologiya, Vol 9, No 4, 1973, pp 579-581

Abstract: In a study of change in the content of total protein and nitrogen during the ontogenesis of wheat varieties resistant to brown rust infection and those susceptible to it, it was found that the decrease in the total protein content of susceptible wheat varieties is greater than that of the resistant ones. It was also noted that in all stages of ontogenesis except for the case of 5- and 10-day seedlings, the nitrogen content in the resistant varieties was higher than in the tissues of the susceptible ones. The assumption is drawn that the obtained data are a result of changes in the content of total protein and nitrogen in connection with the resistance of wheat plants to brown rust infection. 2 tables. 8 references.

1/1

- 62 --

USSR

UDC 619:616.9-097:616.981.42-636.39

IVANOV, M. M., TAVAMAYSHVILI, M. YE., and SKLADCHIKOV, H. V., State Scientific Control Institute of Veterinary Preparations

"Immunomorphological Shifts in Goats Affected With Brucellosis"

Moscow, Veterinariya, No 10, 1971, pp 42-44

Abstract: Vaccination of adult goats and kids 4- to 5-nonths old with GNKI Brucella abortus 19 strain, Br. abortus 19, or Br. melitensis 2,506 produced morphological changes in the lymph nodes and organs typical of brucellosis. The changes were more pronounced in adults. Injection of immune animals with a virulent strain of Brucella elicited moderate benign cellular reactions in the remote lymph nodes and spleen. In general, the level and intensity of the pathomorphological changes varied with the level of immunity created by the vaccine.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"

UNCLASSIFIED PROCESSING DATE-- 13NOV 0.05 TITLE--FIRST INDUSTRIAL TEST OF THE CEMENTING OF A WELL BY ADDING 1/2 PETROLEUM TO THE CEMENT SLURRY -U-AUTHOR-(05)-MAKHMUDOV, M.N., ZHURAVLEV, G.I., SHVARTS, YA.A., SIMDHENKGV. COUNTRY OF THEO-USER SOURCE--IZV. VYSSH. UCHEB. ZAVED., NEFT GAZ 1970, 13(3), 19-24 DATE PUBLISHED ---- 70 SUBJECT AREAS -- MATERIALS TOPIC TAGS--CEMENT, -PETROLEUM EXTRACTION CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NG--UR/0152/70/013/003/0019/0024 PROXY REEL/FRAME--3005/1212 CIRC ACCESSION NO--ATOL33209 UNCLASSIFIED

2/2 005		PROCESSING DATE-13NUV/U	nares a profession
ABSTRACT/EXTRACT(U) G 1.5PERCENT PETROLEUM GAVE SUFFICIENTLY STR	AND 0.35PERCENT TARTARIC ONG STONE. THE PUMPABL	LITY OF THE CEMENT SLURRY CENDING FLOW PROVIDED.	0.
FACILITY: AZERB. IN	ST. NEFTI KHIM. IM. AZIZ	BEKOVA, BAKU, USSR.	
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1/2 014 UNCLASSIFIED PHUCESSING DATE--20NOV70

TITLE--INCREASE IN ATMOSPHERIC DUSTINESS OVER THE USSR -U-

ALTHOR-TAVARTKILADZE, K.A.

CCUNTRY OF INFO-USSR

SOURCE-METEOROLOGIYA I GIDROLOGIYA, 1970, NR 5, PP 42-52

CATE PUBLISHED ----- 70

SUBJECT AREAS - ATMOSPHERIC SCIENCES

TOPIC TAGS-AEROSCL, DUST, ATMOSPHERIC POLLUTION, WEATHER STATION

CENTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3005/0078

STEP NO--UR/0050/10/000/005/0042/0052

CIRC ACCESSION NU-APO132371

UNCLASSIFIED

2/2 014 UNCLASSIFIED PROCESSING DATE-- 20NOV70 CIRC ACCESSION NO--APO132371 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE PROBLEM EXAMINED CONCERNS VARIATIONS OF THE TOTAL CONCENTRATION OF AEROSOL PARTICLES IN THE ATMGSPHERE DURING THE LAST SEVERAL CECADES OVER A NUMBER OF STATICUS IN THE USSK. BY MEANS OF THE DATA AVAILABLE ON SOLAR INTEGRAL RADIATION AND OTHER CHARACTERISTICS OF THE ATMOSPHERE, THE ERRORS HAVE BEEN ELIMINATED WHICH FREQUENTLY APPEARED IN CALCULATIONS WHEN USING BOUGER. BEER'S FORMULA. A GENERAL TENDENCY HAS BEEN ESTABLISHED FOR THE RECENT INCREASE IN THE ATMOSPHERIC DUSTINESS THROUGHOUT THE USSR. FACILITY: ZAKAVKAZSKIY N-I GIDRUMETEOROLOGICHESKIY INSTITUT. UNCLASSIFIED

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UDC 51

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YEREMENKO, B. A., VALOVOY, B. N., YARMILKO, V. G., TAVARTKILADZE, YA. N., GAKHARIYA, K. T.

"Control Algorithms for the Diffusion Process of Sugar Beet Production"

V sb. Prom. kibernetika, (Industrial Cybernetics -- collection of works), Kiev, 1971, pp 256-260 (from RZh-Kibernetika, No 9, Sep 72, Abstract No 9V551)

No Abstract

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- 55 -

UNCLASSIFIED PROCESSING DATE-300CT70
TITLE--CATALYTIC PROPERTIES OF NATURAL AND ACTIVATED ALUMINUM SILICATES IN
THE DEHYDRATION OF 1,4, BUTANEDIOL -UAUTHOR-(03)-ARESHIDZE, KH.I., TAVARTKILADZE, YE.K., CHIVADZE, G.O.

COUNTRY OF INFO--USSR

SOURCE-ZH. PRIKL. KHIM. (LENINGRAD) 1970, 43(3), 601-5

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-ALUMINUM SILICATE, DEHYDRATION, BUTANE, ALCOHOL, FURAN, CATALYST ACTIVITY, BUTADIENE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0799

STEP NO--UR/0080/70/043/003/0601/0605

CIRC ACCESSION NO--APOL19706

UNCLASSIFIED

CIRC ACCESSION NO--APOLI9706
ABSTRACT/EXTRACT--(U) CP-O- ABSTRACT. GUMBRIN AND ASKANGLIN CLAYS
CATALYZE THE DEHYDRATION OF 1.4,8UTANEDIOL (I) TO TETRAHYDROFURAN (II)
AT 200-4000EGREES; CATALYST ACTIVITY IS INCREASED BY MASHING WITH HCL.
II IS OBTAINED IN 98PERCENT YIELD OVER HCL WASHED GUMBRIN AT 280DEGREES
AT VOL. RATE 0.3 HR. PRIME NEGATIVEL. GASEGUS PRODUCTS ARE FORMED
LARGER THAN 300DEGREES; AT 350DEGREES 20 WT. PERCENT I IS CONVERTED TO
GAS CONTG. 20.8 WT. PERCENT BUTADLENE. FACILITY: INST. FIZ.

ORG. KHIM. IM. MELIKISHVILI, TBILISI, USSR.

Devices

USSR

UDC: 621.317.61

TAVDGIRIDZE, L. N.

"Frequency Properties of a Binary Divider With Inductively Coupled Legs"

Dokl. Vses. nauchno-tekhn. konferentsii po radiotekhn. izmereniyam. T. 1 (Reports of the All-Union Scientific and Technical Conference on Radio Engineering Measurements. Vol. 1), Novosibirsk, 1970, pp 60-63 (from RZh-Radiotekh-nika, No 1, Jan 71, Abstract No 1A324)

Translation: A binary transformer divider is analyzed by treating it as a special two-conductor line with uniform lengthwise distribution of leakage conductivity with the same direction of the current in the wires and with a uniformly distributed counter-emf induced by a common magnetic flux. The general conclusion of this analysis boils down to the following: leakage currents have practically no effect on the division accuracy of the described divider up to frequencies of the order of 10 MHz. Bibliography of two titles. E. L.

1/1

Acc. Nr: AP0043694

Ref. Code: UR 0056

PRIMARY SOURCE:

Zhurnal Eksperimental noy 1 Teoreticheskoy Fiziki, 1970, Vol 58, Nr 3, pp 975-978

ENERGY LOSSES BY A CHARGED PARTICLE
IN AN ISOTROPIC PLASMA LOCATED
IN AN EXTERNAL HIGH FREQUENCY ELECTRIC FIELD

T. L. Tardgiridze, N. L. Tsintsadze

Polarization losses of energy by a charged particle in an isotropic plasma located in an external u.h.f. electric field is considered. It is shown that in weak u.h.f. electric fields the losses grow quadratically with respect to the u.h.f. field amplitude; in strong u.h.f. fields the losses are much smaller and on this basis suppression of proper Langmuir oscillations can be assessed.

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UDC 539.4

TAVER, Ye. I., RYSKIN, A. N., KOPYLOV, A. K., SIDOROV, N. G., KRICHEVSKIY, Ye. Yu., SUKHOTIN, A. M., ANTROPOV, N. P., ANTONOVSKAYA, E. I., Leningrad

"Strength of Welded Joints in High-Strength Stainless Steels at Cryogenic Temperatures"

Kiev, Problemy Prochnosti, No 6, 1972, pp 93-96.

Abstract: The influence of the geometry of welded seam made by austenitic wire on the strength of welded joints of martensitic stainless steels at cryogenic temperatures is studied. The influence of technological defects (such as under- and overheating) on strength of wolded joints of two types of steels at low temperatures is studied. It is established that designers must consider both reduced strength of seam metal under normal conditions and impermissibility of any stress concentrators in the seam zone.

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- 68 --

UDG 620.172.251.1:669.14.018.8

BELYAKOVA, K. A., IL'ICHEV, V. YA., STARTSEV, V. I., and TAVER, YE. I., Physico-Technical Institute of Low Temperatures, Academy of Sciences

"Strength and Plasticity of VNS-17 Steel at Low Temperatures"

Moscow, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 3, 1971 pp 7-9

Abstract: A study was made of the mechanical properties of VNS-17 martensitic aging steel in the delivered state (hot rolled products) and its welded joints at temperatures to -269° C. In the hot-rolled state VNS-17 steel has sufficient plasticity and is insensitive to acute notching at test temperatures from room temperature to -253° C. In structural elements welded without used to -196° C. In the presence of an acute notch, the strength of the welded joints at -253° C and -269° C is greater than the strength of the steel at room temperature. The chemical composition of the investigated steel was 0.014% C, 0.08% Mn, 0.17% Si, 0.02% Cr, 9.55% Ni, 0.66% Ti, 0.07% Al, 2.1% Mo, 0.01% Zr, 0.00% B,).06% Ca, 0.007% S, and 0.01% P. 1/1

UDC 620.172.251.1:669.14.018.8

BELYAKOVA, K. A., IL'ICHEV, V. YA., STARTSEV, V. I., and TAVER, YE. I., Physico-Technical Institute of Low Temperatures, Academy of Sciences

"Strength and Plasticity of VNS-17 Steel at Low Temperatures"

Moscow, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 3, 1971, pp 7-9

Abstract: A study was made of the mechanical properties of VNS-17 martensitic aging steel in the delivered state (hot rolled products) and its welded joints at temperatures to -269° C. In the hot-rolled state VNS-17 steel has sufficient plasticity and is insensitive to acute notching at test temperatures from room temperature to -253° C. In structural elements welded without filler metal or with basic composition wire, VNS-17 steel can be used to -196° C. In the presence of an acute notch, the strength of the welded joints at -253° C and -269° C is greater than the strength of the steel at room temperature. The chemical composition of the investigated steel was 0.014% C, 0.08% Mn, 0.17% Si, 10.28% Cr, 9.55% Ni, 0.66% Ti, 0.07% Al, 2.1% Mo, 0.01% Zr, 0.002% B,).06% Ca, 0.007% S, and 0.01% P. 1/1

- 45 -

Materials

USSR

UDC: 621.396.69:621.319.4

AKSENOVA, L. A., MUDROLYUBOVA, L. P., TAVGENA, V. V.

"Effect of Some Technological Factors on the Quality of Stock for Monclithic Capacitors Made From a Ceramic Material Based on a CaTiO₃-LaAlO₃ Solid Solution"

Elektron. tekhnika. Nauchno-tekhn. sb. Radiodetali (Electronic Technology. Scientific and Technical Collection. Radio Components), 1970, vyp. 2 (19) (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 19286)

Translation: The paper deals with the conditions which ensure high quality of a pouring slip of ceramic material based on a CaTiO₃-LaAlO₃ solid solution produced by the method of coprecipitation. An investigation is made into the effect which the degree of compaction during strip rolling and the pressure of tablet molding have on the quality of stock for monolithic capacitors made from this material. Authors' abstract.

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MOLIN, V. N., VASIL, O. I., SKRIPKINA, P. A., ASEYEV, A. L., PETROSYAN, V. I., STENIN, S. I., and TAVGER, B. A., Institute of

"Connections of the Electrophysical Characteristics and Structure of Dimension-Quantized InSb Films"

Leningrad, Fizika i tekhnika poluprovodnikov, No 8, 1972, pp 1447-

Abstract: The purpose of this paper is to establish a connection between the structure and the electrical characteristics of InSb films with quantum dimensional effects. In the form of wedges, the specimens were prepared by pulse sputtering in a vacuum of 10-5 mm Hg on mich sheets measuring 10%80 mm. The specimens were given two types of structure by two modes of annealing. A photograph of these structures is reproduced, and curves are plotted for the mobility as a function of the thickness of the InSb films for the two structural types and for nonstoichiometric films with excess Sb, for the mobility as a function of the polycrystalline film temperature and the textured film temperature. The authors express their gratitude to E. I. Dagman and L. M. Rodnikova for 1/1

- 118 -

Acc. Nr: AF0043672

Ref. Code: **UR** 0056

PRIMARY SOURCE: Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1970, Vol 58, Nr 2, pp 635-640

> OSCILLATIONS OF ULTRASOUND ABSORPTION BY A THIN PLATE IN A TRANSVERSE QUANTIZED MAGNETIC FIELD

B. A. Targer, J. A. Margulis

Absorption of ultrasound in a metallic film (thin plate) located in a transverse quantized magnetic field is considered. The effect of the boundaries on the ultrasound wave is taken into account. It is shown that giant absorption oscillations orise just as in the case of a longitudinal field in a massive sample.

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UDC 539.186:539.188

STREETER PROMINITALISMES IN THE INTERPRETARING AND A PROPERTY OF THE INTERPRETARING AND A STREET AND A STREET

LEBEDEV, I. V., and TAVINSKIY, P. P.

"Recombination Radiation of an Electron in the Presence of an Intensive Light Wave"

Vestn. Leningr. Un-ta [Herald of Leningrad University] No 2, 1969, pp 29-32 (translated from Referativnyy Zhurnal Fizika, No 6, 1970, Abstract No 6D80 by V. Ob'yedkov)

Translation: The radiation of an electron when it is captured by a positively charged ion in the presence of an intensive light field is analyzed. A closed analytic expressed for the probability of capture of an electron with radiation of one photon of arbitrary frequency ω is produced. The quantum irradiated corresponds to the combined frequency, which depends on the number of quanta of the stimulating field. An evaluation is produced for the probability of radiation of a combined photon in comparison with generation of an ordinary photon ($\omega_0 = \Delta E/\hbar$). It is demonstrated that with certain parameters radiation of the combined frequency becomes more probable than radiation at frequency ω_0 , and, furthermore, values of parameters can be selected for which all radiation practically becomes combination radiation.

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BOGOLYUBOV, N. N., VLADIMIROV, V. S., and TAVKHELIDZE, A. N.

"Self-Modeling Asymptotic Behavior in Quantum Field Theory, Part I"

Moscow, Teoreticheskaya i Matematicheskaya Fizika, Vol 12, No 1, 1972, pp

Abstract: This paper is the first part of a series dealing with the theory of highly inelastic processes in the interaction of leptons and nucleons. The authors begin their analysis with a Fourier transform useful in the process of the highly inelastic dispersion of an electron by a nucleon, and they propose a method for investigating the asymptotic behavior of the form factors for theory. They indicate the conditions under which self-modeling behavior of the form factors occurs in the asymptotic region and derive a connection of the self-modeling and the analysis of the dimensionality. It is asserted that this method can be extended to the general problem of the their gratitude to D. I. Blokhintsev, A. A. Logunov, A. A. Markov, V. A. they are associated with the V. A. Steklov Mathematical Institute of the lastic transform of the Nuclear Research, USSR Academy of Sciences.

UDC 629.78:525.2+525.7

AZAROV, V. L., NOVOZHILOV, V. I.,

"The Possibility of a Unique Determination of the Electron Concentration on the

V sb. Mat. metody modelir. v. kosmich. issled. (Mathematical Methods of Modeling in Space Research -- Collection of Works), Moscow, "Nauka", 1971, pp 66-72 (from RZh-62. Issledovaniye kosmicheskogo prostranstva, No. 4, Apr 72, Abstract

Translation: The problem of determining the local electron concentration $N_{\mathcal{C}}$ in the solar corona with the aid of phase measurements is investigated. The following simplifying assumptions are introduced: (1) the distribution N_{ϱ} is assumed to be spherically symmetrical, i.e., $N_e = N_e(r)$; (2) the orbits of the emitter and receiver lie in the same plane; (3) the approximation of geometrical optics is carried out for any trajectories of the probing beams (the fraction is assumed to be negligibly small); (4) the regular icmosphere contribution to the magnitude of the phase shift is evaluated integrally. It is shown that in this case the problem of determining $N_{\mathcal{C}}(r)$ is single-valued and reduces to an inverse problem in potential theory. 8 ref. L. D.

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SIMANOVSKIY, L. N., KRASNOVSKAYA, I. A., PROZOROVSKAYA, M. P., and UDC 612.273+612.018 TAVROVSKAYA T. V., Laboratory for the Study of the Resistance of the Organism, Laboratory of Endocrinology, and Laboratory of the Development of Adaptive-Trophic Functions of the Nervous System, Institute of Evolutionary Physiology and Biochemistry imeni I. N. Sechenov, Academy of Sciences USSR, Leningrad

"Changes in the Neuroendocrine System in White Rets During Adaptation to Hypoxia"

Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenov, Vol 59, No 5, 1973, pp 828-836

Abstract: Tests were performed on rats exposed (in a barcchamber) to a simulated altitude of 2,000 to 7,600 m for up to 3 months. Groups of animals were sacrificed at intervals and tissue samples collected for analysis. Morphological changes concerning cytoplasm, nuclei, and vascularization proceeded in two phases, giving rise to corresponding functional alterations. In the initial days of hypoxia, a certain activation of the hypothalamic-neurohypophyseal system (HNHS), adenohypophysis, and the thyroid gland was observed. From the 14-20th day on, synthesis of HNHS hormones was reduced, though these hormones were readily released from the neurohypophysis into blood, Similarly,

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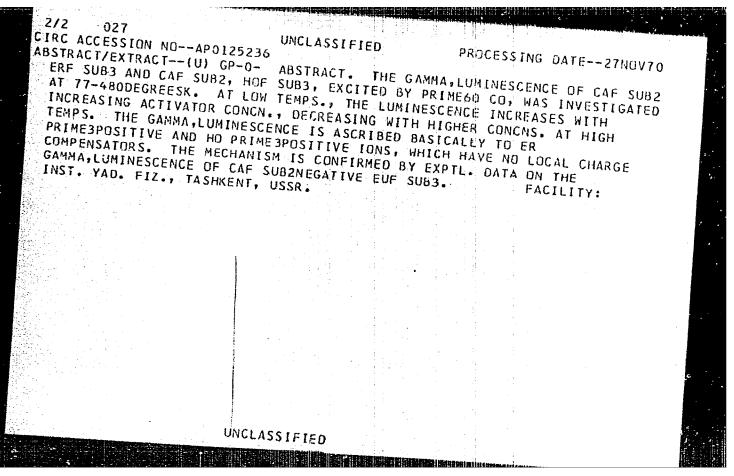
SIMANOVSKIY, L. N., et al., Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenov, Vol 59, No 5, 1973, pp 828-836

from the 30th to the 90th day, production of the TSH in the adenohypophysis and the activity of the thyroid gland progressively decreased. On the other hand, concentration of catecholamines and insulin in blood plasma and utilization of these hormones in tissues were increased throughout the duration of the hypoxia. The concluding paragraph states that the observed changes are significant and will be discussed in a separate article.

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واجراني والمراجع 1/2 TITLE-RADIATION OPTICAL PHENOMENA IN CALCIUM FLUORIDE, RARE, EARTH PROCESSING DATE--27NOV70 AUTHOR-(03)-VAKHIDOV, SH.A., KAIPOV, B., TAVSHUNSKIY, G.A. COUNTRY OF INFO--USSR SOURCE-IZV. AKAD. NAUK UZB. SSR, SER. FIZ., MAT. NAUK 1970, 14(2), 73-7 DATE PUBLISHED ---- 70 SUBJECT AREAS -- CHEMISTRY, PHYSICS TOPIC TAGS--RARE EARTH COMPOUND, FLUORIDE, CRYSTAL, GAMMA LUMINESCENCE, EUROPIUM COMPOUND, HOLMIUM COMPOUND, CALCIUM COMPOUND, OPTIC PROPERTY, CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1614 STEP NO--UR/0166/70/014/002/0073/0077 CIRC ACCESSION NO--APO125236 UNCLASSIFIED



TAY, M. L.

UDC: 519.217

"On Markov Processes With Discontinuous Coefficients of Drift and Diffusion"

V sb. Nelineyn. i optimal'n. sistemy (Nonlinear and Optimum Systemscollection of works), Moscow, "Nauka", 1971, pp 399-405 (from RZh-Kibernetika, No 11, Nov 71, Abstract No 11V115)

Translation: The Fokker-Planck equation is derived for the probability density of transition of an n-dimensional Markov process whose coefficients of drift and diffusion undergo first-order discontinuities on surfaces S_1, \dots, S_m . The resultant equation is used for finding the probability density of transition of Markov processes described by systems of stochastic differential equations with piecewise-continuous coefficients. It is shown that this problem can be reduced to finding the solution of 2m Fredholm's

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UDC: 621.373.42(088.8)

TAYBERG, N. O., SULIM, V. A., FEYNBERG, S. Ya.

A Self-Excited Harmonic Signal Oscillator"

USSR Author's Certificate No 282439, filed 12 May 68, published 11 Dec 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6D341 P)

Translation: This Author's Certificate introduces a self-excited harmonic signal oscillator in a three-point circuit based on a vacuum tube or semiconductor device. The oscillator contains a tank circuit with electronic frequency tuning by connecting a varicap in the tank. The varicap is connected in turn to a source of controlling voltage. To reduce the nonlinearity of frequency response with tuning over a wide range, the oscillator is equipped with an additional varicap which is connected through a threshold semiconductor diode to the source of controlling voltage, and through a resistive voltage divider to a source of DC voltage which blocks the threshold diode in the controlling voltage circuit. Two illustrations.

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USSR

UDC: 621.396.621.55:621.374.33(088.8)

TAYBERG, N. O., SULIM, V. A., FEYNBERG, S. Ya.

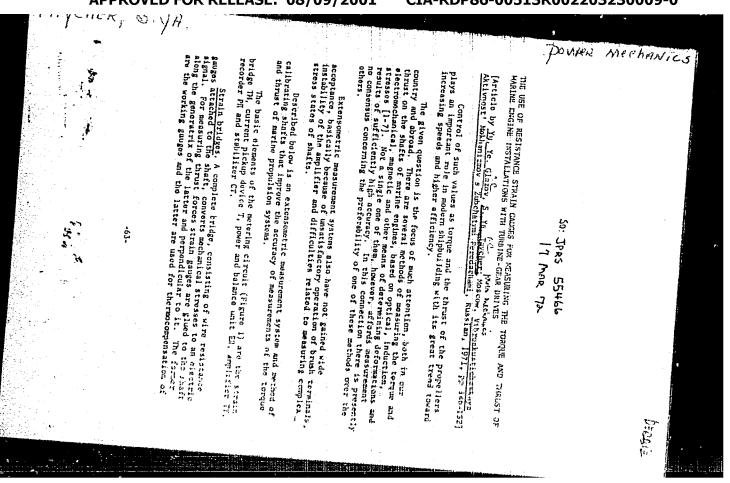
"A Transistorized Time Discriminator"

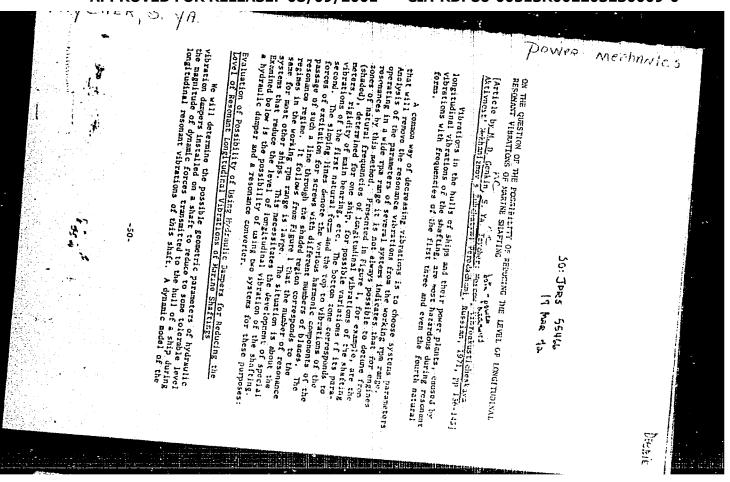
USSR Author's Certificate No 270796, filed 12 May 68, published 11 Aug 70 (from RZh-Radiotekhnika, No 2, Feb 71, Abstract No 2D53 P)

Translation: This Author's Cartificate introduces a transistorized time discriminator of a periodic pulse signal. The unit contains two identical conversion channels with detector stages, diode-regenerative comparators and flip-flops connected in each of them. To increase the slope and improve the linearity of the discrimination characteristic, a selecting stage is included in each discriminator channel, and a pulse-duration converter is connected to the output of this selecting stage. The outputs of the channels are connected to an output mixer — a device which shapes pulses of normalized amplitude; the polarity of these pulses determines the sign, and their duration determines the magnitude of the time mismatch.

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- 59 -





Acc. Nr: AP0040324

Ref. Code: UR 0481

PRIMARY SOURCE:

Eksperimental naya Khirurgiya i Anesteziologiya, 1970, Nr / , pp 67-7/

ON THE INFLUENCE OF LYSTHENON ON THE CARDIO-VASCULAR SYSTEM

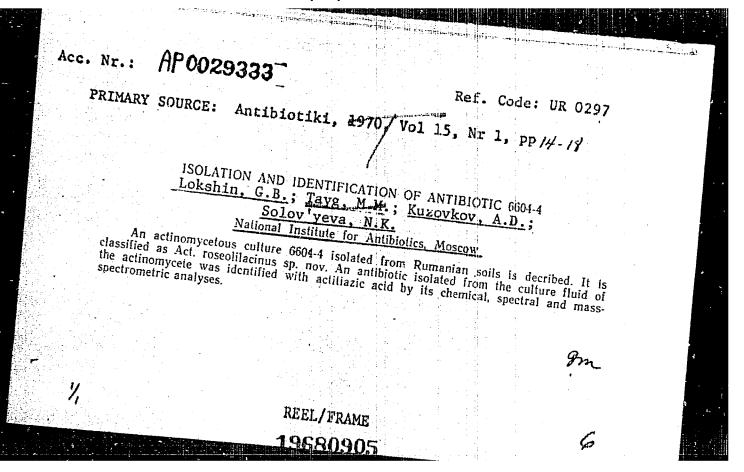
V. V. Tavevskiy, L. I. Kozlova, A. S. Nikiforova

In 89 experiments on dogs the authors studied side effects of the relaxant on the cardio-vascular system using plethysmography and sphygmography. A marked vasodilatory action of lysthenon on the peripheral blood vessels and considerable stimulating and the rate of intravenous administration.

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REEL/FRAME 19741755

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UDC 576.858.75.094

SIDORENKO, O. V., KORNYUSHENKO, N. P., TAYKOVA, N. V., SINEL'NIK, N. A., and YACHNIK, O. S., Kiev State University, Kiev

"Biological Properties and Ultrastructure of the Influenza Virus A_2 (Hong

Kiev, Mikrobiologicheskiy Zhurnal, Vol 33, No 4, Jul/Aug 71, pp 466-472

Abstract: A study conducted on influenza virus of strain A2 (Hong Kong) 68, received from the Influenza Institute, Academy of Medical Sciences USSR and passaged through chicken embryos, showed that the population of virus particles exhibited differences with respect to morphology, ultrastructure, and biological properties. Chromatography on DEAE-Sephadex-A-50 indicated that the virus strain contained a fraction of particles that were not adsorbed in the column. Particles of this fraction were also not adsorbed on chick embryos. Comparison with other strains showed that only the strain A2 (Hong Kong) 68 contained a fraction that was not adsorbed in the column. Further passages through chick embryos did not change the relative content of this fraction. Elution with NaCl solutions of increasing concentration yielded three virus fractions with decreasing particle size: 1) 2800-7000 Å (0.1 M NaCl), 2) 1400-2100 Å (0.5 M NaCl), and 3) 600-800 Å (1.0 M NaCl). The

VDC 576.858.4

TAYKOVA N. V.; SYDORENKO, O. V.; KORNYUSHENKO, N. P.; RUDENKO,

"Fractionation of Influenza Virus Type A by Chromatography on DEAE Sephadex A-50"

Kiev, Mikrobiologicheskiy Zhurnal, Vol 33, No 3, May/Jun 71,

Abstract: The effectiveness of the chromatographic method of fractionation of influenza virus type A on DEAE Sephadex A-50 was tested during purification of the following strains of the virus: laboratory type APR-8, A2(Singapore) 57, A2(England) 57, A2(Leningrad) 67, and A2 (Hong Kong) 68. Virus was obtained by infecting 10-day old chick embryos, incubating for 48 hours at 34°C, and then extracting the allantoic fluid. The chromatographic fractionation of virus-containing fluid was carried out on DEAE Sephadex type A-50 in chloride form. The Sephadex was washed on filter paper with 0.5 M hydrochloric acid and water and then

- 12 -

TAYKOVA, N. V., et al, Mikrobiologicheskiy Zhurnal, Vol 33, No 3, May/Jun 71, pp 334-338

sodium hydroxide with water, suspended in 1/15 phosphate buffer pH 7.4, and poured into a test tube in a quantity necessary for virus purification. The allantoic fluid containing the virus, after centrifugation at 2,500 rpm for a period of 30 min., was added to the adsorbent-containing column; the column contents were then washed with 1/15 M phosphate buffer. Blution of the adsorbed virus was carried out in stages with the use of 0.1-1.0 M solution of sodium chloride in the same buffer. The purity of the virus was determined by content of proteins and nucleic acids in the eluate. On the basis of the obtained data, the method of chromatographic fractionation of viruses on DEAE-Sephadex is recommended for use as one of the methods for purification of influenza virus type A. Under such purification conditions the behavior of each of the strains is specific and may serve as a criterion of the strain characteristics of influenza viruses. Correlation between the chromatographic behavior of influenza viruses, their capacity for adsorption on chick erythrocytes, 2/3

USSR

TAYKOVA, N. V., et al, Mikrobiologicheskiy Zhurnal, Vol 33, No 3, May/Jun 71, pp 334-338

and their relation to inhibitors, depending on the structural characteristics of the supercapsid of the viruses, has been

3/3

- 73 <u>-</u>

YAKUBOVA, N., TAYMETOV, K.

"Automatic Generation of Nominal Word Combinations"

V sb. Vopr. kibernetiki (Problems of Cybernetics -- collection of works),
Vyp. 46, Tashkent, 1971 (1972), pp 201-205 (from RZh-Kibernetika, No 7, Jul 72,

Abstract No 7v676)

Translation: An effort is made to propose NS-rules describing the simplest type of name groups in the Uzbek language. The article contains obscurities

and linguistic errors.

10845

- END
CSO: 1843-W

UDC: [621.311.4:681.14]:061.3

TAYTS. A. Candidate Technical Sciences, and ROSHCHENYA, A. F. Engineer

"Experiences in the Application of Computer Techniques to Power Systems, Municipal Power Systems, and Industrial Plant Power Sys-

Moscow, Elektricheskiye Stantsii, No. 5, 1971, pp 90-92

Abstract: This article is a report on the Scientific-Technical Conference held in Moscow from the 8th to the 10th of April, 1970, on the subject of the title given above. The Conference was organized by the Moscow Board of the Scientific-Technical Society of the Power and Electrical Engineering Industry in cooperation with the Moscow House of Propaganda imeni F. E. Dzerzhinskiy and the Moscow Order of Lenin Power Institute. More than 400 people from 40 cities of the USSR participated, and more than 60 reports were read. Reports were presented on the development of power system theory through advances in computer techniques, by Prof. V. A. Venikov, the optimization of power systems, by Prof. I. M. Markovich, the application of computers to the study of steady-state power system operation and power grids, etc. It was noted, in one paper, that the Single Power System for the European Part of the USSR has become so complex that special attentica has recently been given to using computers for solving the problem of optimizing

TAYTS, A. A., et al, Elektricheskiye Stantsii, No. 5, 1971, pp 90-

24-hour operation. The Conference noted the need for improving the preparation of engineering cadres in the theory of electric power programming and in methods of computer techniques, and a resolution was adopted to request the Ministry of Medium and Adequipment to the VUZ student laboratories.

2/2

- 119 -

LYUBLINSKIY, YE. YA., BIBIKOV, N. N., TAYTS A. Yu., and SUBBOTINA, M. S., Central Scientific-Research Institute of Shipbuilding Technology VDC: 620.197.5

"Selection of Cast Magnesium Protector Alloys"

Moscow, Zashchita Metallov, "Nauka", Vol 7, No 3, 1971, pp 322-326

Abstract: The authors determine the optimal composition of a magnesium protector alloy. The tests were conducted in calm, artificial sea water of average ocean composition at 18-20 degrees. A table is given which shows that commercially pure alloys have similar electrochemical characteristics. Of the high-purity alloys, the M14vch alloy appears to be the qualitatively best protector material. The following are its composition and electrochemical characteristics obtained at a current density of 5 a/m² and a test duration of 480 hr: alloying elements by percent, 519 Al, 2.4 Zn, 0.40 Mn, and 0.0 Ce; impurities by percent, 0.0035 Fe, 0.0005 Cu, and 0.0002 Ni; potential during polarization in mv, -1205; and current efficiency by percent, 60.0. The studies show M14vch to be the best protector material if it does not contain more than 0.001 Ni, 0.0045 Fe, and 0.005 Cu. It dissolves within the 3-10 a/m² current density interval with a current efficiency of 57.5-62.0% at a potential of -1225-1205 mv. Original article: one table, two formulas, one figure, and

- 24 -

UDC 669.721'71'5.018.9

VYAZNER, M. YA., TAYTS, A. YU., and HORACHEVSKIY, A. G.

"Equilibrium of Liquid-Vapor Over Binary Melts of Magnesium-Aluminum and

Y. sb. Vakuumn. protesessy v tsvetn. metallurgii (Vacuum Processes in Nonferrous Hetallurgy -- Collection of Works), Alma-Ata, "Nauka," 1971, pp 120-124 (from Referativnyy Zhurnal -- Metallurgiya, No 6, Jun 71, Abstract no

Translation of Abstract: The equilibrium of liquid-vapor in the systems Mg with Zn and Mg with Al was studied and the possibility was shown of the distribution of the liquid melt on pure components by means of fractional distillation (Five illustrations; 20 bibliographic entries).

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RAZMYSLOV, V. I., and TAYTS.

UDC 669.721 884.018.9

"Vacuum-Thermal Process for the Production of Magnesium Lithium Alloys"

V. sb. Vakuumn. protsessy v tsvetn. metallurgii (Vacuum Processes in Nonferrous Metallurgy -- Collection of Works), Alma-Ata, "Mauka," 1971, pp 192-194 (from Referativnyy Zhurnal -- Metallurgiya, No 6, Jun 71, Abstract No

Translation of Abstract: Results are given of the vacuum thermal process for the production of sufficiently pure binary alloy of Mg with Li or an alloy directly from oxide feed material. The solid phase reduction of Mg and Li from oxide compounds with Al and FeSi impurities was studied (one illustration;

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USSR

TAYTS, A. Yu.

"Use of Magnesium and Its Alloys in Industry"

Tr. Vses, N-i. i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Norks of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium And Electrode Industry], 1970, No. 72, pp. 18-25. (Translated from Referativnyy Translation: A description is presented of the properties of Mg and its alloys which have resulted in its broad application in the national economy.

1/1

UDC 669.721.4

TAYTS, A. Yu., PODZOROV, B. N., KHABAROVA, N. P.

"State and Prospects for Development of Techniques of Refining and Casting of Magnesium and its Alloys"

Tr. Vses. N-i. i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 56-62. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G200 by the authors).

Translation: The problem of development and introduction of a technology for refining primary Mg in new, highly productive continuous apparatus is studied. The experience of the industrial operation of continuous Mg refining furnaces has shown their technical and economic effectiveness. A plan has been developed for a highly productive crucibleless furnace for the production of Mg alloys. Continuous furnaces and highly productive crucibleless apparatus for the production of alloys may be one of the main links in a continuous line for production of commerical Mg. At the present time, a plan has been developed for mechanized continuous line processing of ingots. The introduction of this line to production will solve the problem of complete mechanization and automation of the production of refined Mg and its alloys. 1 table, 5 biblio refs.

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- 30 -

UDC 669.721.725.018.9

TAYTS, A. VII., ALEKSANDROVSKIY, S. V., ABROSIMOVA, Ye. N., PETROVA, F. A.,

"Study of the Process of Production of Magnesium Alloy, Alloyed With Beryllium"

Tr. Vses. N-i. i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 144-149. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G201 by the authors).

Translation: A technology is described for production of a casting alloy in the Mg-Al-Zn-Mn system (type MgS5) with Be added. Due to the addition of Be, the oxidation of the alloy during melting and pouring is sharply reduced, allowing a decrease in the consumption of S and flux, and the losses of alloy with the bottom sediment are also decreased. Due to the poor solubility of Be in Mg, a 2 or 3 times excess quantity must be introduced to the charge. The influence of slight (5.104-15.10-4%) additions of Be on the structure, and mechanical and corrosion properties of the alloys is studied. The introduction of up to 0.008% Be to the Mg alloy does not result in significant enlargement of the grain, the mechanical properties are not reduced, and the corrosion properties are even increased. The production of Mg alloy with addition of Be has been undertaken on the commercial scale. 3 figs; 1 table; 5 biblio refs.

YSSR

UDC 534.647:621.83:389

TAYTS, B. A., TSEYTLIN, S. I., and SHUMILIN, V. V.

"Metrological Problems in the Seismic Method of Gauging Nonuniformity and Inconsistency in the Motion of Elements of Kinematic Chains"

Khar'kov, Ukr. resp. nauch.-tekhn. konf., posvyashch. 50-letiyu metrol. sluzhby USSR, 1972 -- sb. (Ukrainian Republic Scientific and Technological Conference Honoring the 50th Anniversary of the Ukrainian SSR's Metrological Service, 1972 -- Collection of Works), 1972, pp 178-179 (from Referativnyy S21)

Translation: The authors have worked out two models of a device for measuring nonuniformity and inconsistency in the rotation of a table and a tool. The set consists of two seismic angular oscillators fitted with individual amplifying channels, an electronic adder with scale multiplication of the components according to the gear ratio, and a three-channel recorder. Differential-seismic device, the authors developed a calibrator consisting of a platform with spring suspension that makes angular vibrations when acted upon by a pair of 1/2.

USSR

TAYTS, B. A., et al., Ukr. resp. nauch.-tekhn. konf., posvyashch. 50-letiyu metrol. sluzhby USSR, 1972, pp 178-179

precision induction-transformer displacement inverter. The authors provide for certification of the control equipment in the statistical mode by using standard linear and angular measures, as well as spring-actuated contact comparator heads in the lower part of the spectrum. Identity of the amplitude and affects the adder error, which is quite substantial in the frequency band close to the sensor's natural frequency, where these disgrams are steepest. Characteristics. A detailed investigation of the metrological problems involved in the seismic method is of pressing importance.

2/2

. 62 -

USSR

UDC: 621.362.2

PETROV, G. S., TAYTS, D. A., CHERNYAVSKIY, V. V., Special Design Office of

"A Method of Thermostabilization"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 11, Apr 72, Author's Certificate No 333645, Division G, H, filed 1 Apr

Translation: This Author's Certificate introduces a method of thermostabilization of an object by means of a thermopile located inside a solid and having a nonstationary heat source. As a distinguishing feature of the patent, in order to maintain the temperature of the heat-sensitive section constant, a thermal wave is generated which is directed toward the heat-sensing section in such a manner that the thermal wave arrives in the heat-controlled area in antiphase with respect to the heat wave of the non-

1/1

- 42 -

UDC 612.822.1:612.015:612.018

TAYTS, M. Yu., Institute of Physiology of the Academy of Sciences Belo-

"Compensatory Mechanism of Metabolic Shifts in the Central Nervous System Under Stress"

Minsk, Doklady Akademii Nauk BSSR, Vol 14, No 10, 1970, pp 953-955

Abstract: When the brain is subjected to stress, metabolic shifts leading to the accumulation of ammonia, lactic and pyruvic acids, to inhibition of oxidative phosphorylation, and to reduction in content of glycogen, creatine phosphate, adenosine triphosphate, etc., occur in the brain. The administration of corticosteroids reduces the intensity of redox processes in the central nervous system, which results in the beginning of inhibition in the utilization of substrates of the tricarboxylic acid cycle. The presence of adminite correspondence between the activity of the dehydrogenases and the ammonia content in the brain during stress, on the one hand, and adrenalectomy, on the other, suggests that these processes are interdependent.

1/1

TITLE—RUENTGEN RADIULOGICAL EXAMINATION OF DIFFUSE LIVER LESIONS —U—

AUTHOR—(03)—NOSOVA, YE.T., TAYTS, N.S., LUKASH, L.K.

CCUNTRY OF INFO—USSR

SGURCE—VRACHEBNOYE DELO, 1970, NR 6, PP 84-87

DATE PUBLISHED———70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS—GOLD ISOTOPE, LIVER, HEPATITIS, CIRRHOSIS, RADIULOGY

CONTROL MARKING-NO RESTRICTIONS

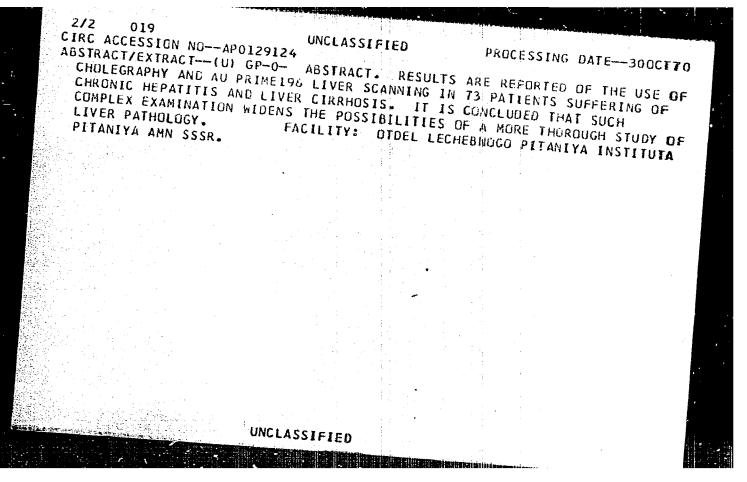
DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—3002/1756

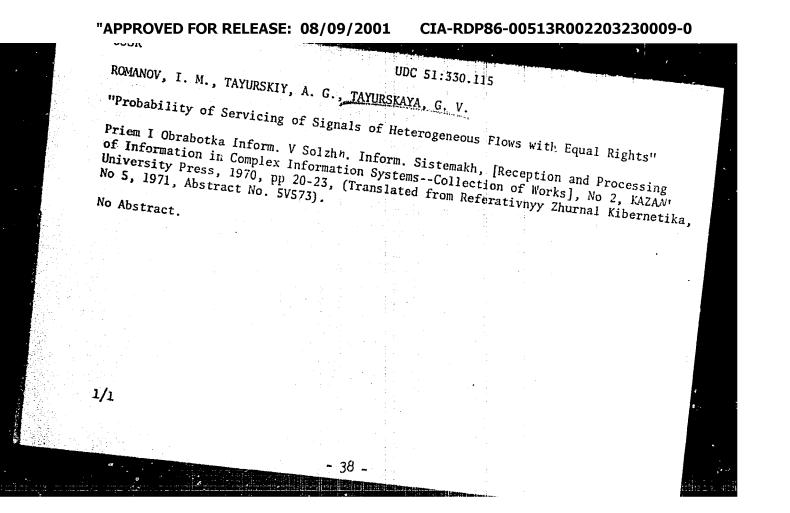
STEP NO--UR/0475/70/000/006/0084/0087

CIRC ACCESSION NO--APO129124

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"





UDC 621.391:519.152

ROMANOV, I. M., TAYURSKIY, A. G., TAYURSKAYA, G. V.

"Probability of Servicing in a Two-Channel System With Inter-

Kazan', V sb. Priyem i obrabotka inform. v strukturno-slozhn. inform. sistemakh (Receiving and Processing of Information in Structurally-Complex Information Systems -- collection of works). No 1, Kazan' University, 1969, pp 36-41 (from RZh -- Elektro-svyaz', No 2, Feb 70, Abstract No 2.64.11)

Abstract: A process is considered for servicing a location in a complex system which consists of two sets of receiving apparatus tuned to different frequencies. A flow of signals of a specific intensity enters each set. The feedback between the two sets operates so that servicing in one set does not in-fluence servicing in the other, but incapacitation of one immediately produces incapacitation of the other. The probability of servicing in such a system is determined. 3 ref. V.N.

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USSR

UDC 51:330.115

ROMANOV, I. M., TAYURSKIY, A. G., TAYURSKAYA, G. V.

"Probability of Servicing of Signals of Heterogeneous Flows with Equal Rights"

Priem I Obrabotka Inform. V Solzhn. Inform. Sistemakh, [Reception and Processing of Information in Complex Information Systems--Collection of Works], No 2, KAZAN' University Press, 1970, pp 20-23, (Translated from Referativnyy Zhurnal Kibernetika, No 5, 1971, Abstract No. 5V573).

No Abstract.

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- 38 -

.USSR

SAMITOV, Yu. Yu., TAZEYEVA, N. K., CHADAYEVA, N. A., and KAMAY, G. Kh. UDC 541.63:543.422.25:547.879 (deceased), Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR, Kazan'

"The Configuration and Conformation of Substituted 1,3,2-Diokaarsenanes"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 4, Apr 73, pp 457-463

Abstract: On the basis of paramagnetic resonance spectra of high resolution, the configuration and conformation of ten 1,3,2-dioxaarsenanes substituted in positions 2,4, and 5 were studied. The data obtained indicated inversion of the screening constants of protons in positions 4,6, and 5 and of methyls in position 5, an axial location of the bonds As-Cl and As-OR, an equatorial location of 4-Me, and a chair conformation of the six-membered heterocycle. The anisotropies of diamagnetic susceptibility ($\Delta \chi As-0 = 4.67 \times 10^{-6}$ and $\Delta \chi As-0 = 4.67 \times 10^{-6}$ and in the dipole approximation; $\Delta \chi As-0 = 4.67 \times 10^{-6}$ 0.9 X 10⁻⁶ and $\Delta \times$ As-Cl = -6.8 X 10⁻⁶ cm³·mole⁻¹ in the non-dipole approximation) were estimated for the first time. By applying the R-factor method, a tion) were estimated for the first time. By applying one memory accepting torsion angle $\psi = 580$ was found for 2-chloro-1, 3,2-diaxearsenane. A study of the specific influence on the position of the resonance lines of the

USSR

SAMITOV, Yu. Yu., et al., Khimiya Geterotsiklicheskikh Soyedineniy, No 4,
Apr 73, pp 457-463

aromatic solvent on transition from CCl, to PhH confirmed the conclusions made
on the conformation of the ring and of the substituents in it.

MEMIBAYEV, B.

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CAPUTERS

UDC 002.513.5:681.3

BALAFANOV, Vc., KACHURINA, O. K., KIRDYASHKIN, A. F., MIJERKOV, B., LYAN, E. N., USTINOV, V. A., TAZHIBAYEV, S. B., TRET'YAKOV, V. V., and FECOROV, V. V.

"The MS-1 Information Retrieval System"

Tr. In-ta Mat. 1 Mekh. AN KazSSR (Works of the Institute of Mathematics and Mechanics of the Academy of Sciences, Kazakh SSR), No 2, 1970, up 293-302 (from R-2h -- Informatika, No 4, Apr 71, Abstract No 71,4,169 (71R--1250))

Translation: An approach to the creation of a system for collection, storage, and processing of technological information from a controlled process is described. One variant of an information retrieval system is presented. It includes technical resources, the organization of information arrays in computer storage, and a complex

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UDC 615.37:576.858.095.383].015

TAZULAKHOVA, E. B., and YERSHOV, F. I., Institute of Virology imeni D. I. Ivan-

"Some Aspects of Interferon Activity"

Moscow, Antibiotiki, Vol 17, No 10, 1972, pp 940-945

Abstract: Resistance to Venezuelan equine encephalomyelitis virus developed by chick embryo fibroblasts in response to administration of homologous interferon depends on the time and dose of the virus and interferon added. On the average, resistance begins to develop 1-2 hrs after administration of interferon, reaches a maximum in 5-6 hrs, and remains constant as long as interferon is present in the medium in ample concentration. The best results are achieved by adding interferon prior to inoculation. Infection is not prevented if interferon is administered 2-3 hrs after inoculation. Removal of interferon from the medium is followed by a fall in resistance in 6-9 hrs, regardless of the inoculation dose and the initial concentration of interferon. This period coincides with

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- 15 -

VDC 547.341

MOSKVA, V. V., ISMAILOV, V. M., ZYKOVA, T. V., and TAZUMOV A. I. Kazan' Institute of Chemical Technology imeni S. M. Kirov

"Substituted Vinylphosphonic Acid Derivatives. IX. Study of the Possibility of Thione-thiol Isomerization of B-Alkexyvinylthiophosphonic Acid Derivatives"

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 8, Aug 71, pp 1676-1679

Abstract: In an earlier article the authors reported that they found no thione-thiol isomerization in the synthesis of Alkoxyvinylthionophosphonic acid esters. The present article gives additional data, on the basis of which a thione structure is assigned to the synthesized esters. The possibility of thione-thiol isomerization was studied in the esters themselves, as well as products of their subsequent conversions. For this purpose the diethyl ester of subsequent conversions. For this purpose the diethyl ester of subsequent acid was compared acid, obtained by parallel synthesis. The conversion products of these esters layer chromatography data confirm the resistance of the reaction products and identification.

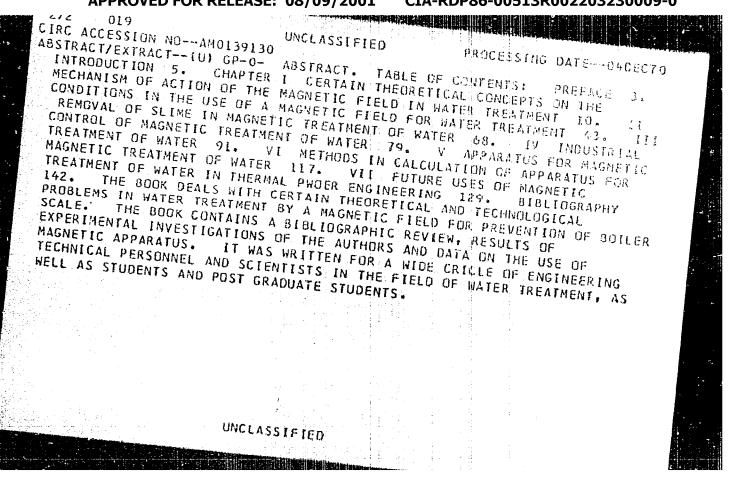
TITLE--WATER TREATMENT BY A MAGNETIC FIELD IN THERMAL POWER ENGINEERING PROCESSING DATE-04DECTO AUTHOR-(02)-TEBENIKHIN, YE.F., GUSEV, B.T. COUNTRY OF INFO--USSR SOURCE-WATER TREATMENT BY A MAGNETIC FIELD IN THERMAL POWER ENGINEERING COBRABOTKA VODY MAGNITNYM POLEM V TEPLOENERGETIKET MOSCOW, ENERGIYA, DATE PUBLISHED----70 SUBJECT AREAS-MECH., IND., CIVIL AND MARINE ENGR, ENERGY CONVERSION TOPIC TAGS--MONOGRAPH, WATER PURIFICATION, WATER PURIFICATION EQUIPMENT, CONTROL MARKING--NO RESTRICTIONS

DOCUMENT GLASS--UNGLASSIFIED PROXY REEL/FRAME--3009/0308

STEP NO--UR/0000/70/000/000/0001/01/44

CIRC ACCESSION NO--AMOL39130

UNCLASSIFIED



Physiology

UDC 616.717.611.424)-092.91612.014.477-063

TEBENCY M YE., Chair of Normal Anatomy, First Leningrad Medical Institute Imeni Academician I. P. Pavlov

"Effects of Accelerations on the Development of Collateral Lymph Channels in the Thoracic Extremity of the Rabbit"

Leningrad, Arkhiv Anatomii Gistologii i Embriologii, Vol 60, No 4, Apr 71,

Abstract: Recovery of the lymph system was studied on 54 rabbits after transsection of afferent lymph channels in the thoracic limbs and maximum tolerable centrifugation (9.6 Gs). Exposure to acceleration induced a more rapid developcontrols. The collaterals were unevenly enlarged and circuitous; lymph nodes were also enlarged. Recovery of the severed lymph vessels was delayed, and the anastomoses which formed between them were narrow and functionally ineffective. As a result, the collaterials were draining the lymph for up to 6 months. These changes were more pronounced after acceleration in the head-pelvis than in the pelvis-head direction. 1/1

TITLE-BLOOD SERUM SERGTONINE CONTENT AND ITS METABOLISM IN THE ACUTE Et.V PROCESSING DATE-300CT70 AUTHOR-(02)-SMIRNOV, V.A., TEBLOYEV. I.K.

COUNTRY OF INFO--USSR

SGURCE--VRACHEBNOYE DELO, 1970, NR 4, PP 59-61

DATE PUBLISHED-70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BLOGD SERUM, SEROTONIN, METABOLISM, BRAIN, CIRCULATORY SYSTEM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3002/1694

STEP NO--UR/0475/70/000/004/0059/0061

CIRC ACCESSION NO--APO129064

UNCLASSIFIED:

CIRC ACCESSION NOT—APO129064 UNCLASSIFIED PROCESSING DATE—300C170

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. THE MAJORITY OF PATIENTS WITH
BLOOD SERCICNINE. MORE SEVERE DEGREES OF CEREBRAL CIRCULATORY DISORDERS SHOWED AN INCREASE OF
SERCIONINE MORE MARKED QUAITITATIVE CHANGES OF THE BLOOD SERUM
CIRCULATORY DISORDERS SHOWED CHANGES OF URINARY SOXYINDOLEACETIC ACID.

SHARP CHANGES OF THE ABOVE INDICES IN PATIENTS WITH CEREBRAL
HYPERIENSIVE DISEASE SHOULD BE CONSIDERED IN THE PLAN OF PROPHYLAXIS OF
MEDITSINSKUGO SIGMATOLOGICHESKOGO INSTITUTA.

UNCLASSIFIED

UNCLASSIFIED

Pharmacology and Toxicology

USSR

UDC 615.332 (Oleandomycinium).072

TEBYAKINA, A. E., DRUZHININA, E. N., SUVORKINA, D. V., National Institute for Antibiotics, Moscow

"Effect of the Presence of Oleandomycin in Triacetyloleandomycin on Determination of Biological Activity of Triacetyloleandomycin"

Moscow, Antibiotiki, Vol 15, No 1, Jan 70, pp 81-84

Abstract: (Authors' English-language summary modified) The presence of oleandomycin in triacetyloleandomycin (TAO) preparations had a marked effect on the biological activity of TAO as was determined by the agar-diffusion method using Bac. mycoides NV (resistant to tetracycline) as the test organism. An increase in effectiveness was also observed in dry mixtures of TAO with tetracycline during storage; this is attributed to the formation of oleandomycin in the dry mixture, oleandomycin being more diffusible in agar.

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Acc. Nr.: APO029430

Ref. Code: UR 0297

PRIMARY SOURCE: Antibiotiki, 1970, Vol 15, Nr 1, pp 7 /- 74

EFFECT OF OLEANDOMYCIN PRESENCE IN TRIACETYLOLEANDOMYCIN ON DETERMINATION OF TRIACETYLOLEANDOMYCIN BIOLOGICAL ACTIVITY

A. P. Tebyakina C. N. Druzhinina, D. V. Suvorkina

National Institute for Antibiotics, Moscow

Presence of oleandomycin in triacetyloleandomycin preparations had a marked effect on determination of triacetyloleandomycin biological activity by the agar-diffusion method using as the test-microbe Bac, mycoides NV resistant to tetracycline. An increase in the activity of triacetyloleandomycin in dry mixtures with tetracycline was observed during storage or preparation. The phenomenon may be attributed to formation of oleandomycin with a different nature of diffusion to agar.

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REEL/FRAME

19531025

UDC 629.124.791.07

POPOV, YU. N., TEGKAYEVA, T. KH., and FADEYEV, O. V.

"Influence of the Shape of Icebreaker Contours Upon the Value of Ice Loads"

Leningrad, Ledovyye Kachertva Sudov (Ice Properties of Ships), Gidrometeoizdat, 1973, pp 79-87

Abstract: An analysis is made of the influence of the shape of icebreaker hull contours upon the value of ice loads. Formulas and graphs are presented, which illustrate the relationship of the value of the ice loads upon an icebreaker hull, including the structural components and the cladding, to the angle of inclination of the ribs, the completeness coefficient of the bow area of the waterline, and the length-to-beam ratio of the hull. It is shown that the shape of the hull contours affects to a considerable degree the value of the impact loads originating in the bow of the hull. I table. 2 references.

1/1

UNCLASSMEIED PROCESSING DATE--18SEP70

1/2 021

TITLE--FORMATION OF RING SPHERULITES UNDER THE INFLUENCE OF PERIODIC

TEMPERATURE CHANGES -UAUTHOR-(02)-TEITELBAUM, B.YA., PALIKHOV, N.A.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12(1). 3-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--SPHERULITE, POLYETHYLENE, ADIPATE, CRYSTAL GROWTH, MICROSCOPY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROKY REEL/FRAME--1986/0256

STEP NO+-UR/0460/70/012/001/0003/0004

CIRC ACCESSION NO--APO102306

UNCLASSIFIED

USSR

UDC: 616-001.34-07:616.16-008.6

DZIZINSKIY, A. A. and TEKEMENA, T. I., Medical Institute, Sanıtation Institute, Novosibirsk

"Capillary Permeability in Patients With Vibration Sickness"

Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, ib 1, 1971, pp 43-45

Abstract: Capillary permeability, fibrinolysis, and heparin levels were investigated in 76 persons with stage 1 or stage 2 vibration sickness. Capillary permeability increased with the severity of the disease. Fibrinolytic activity increased in stage 1 and then decreased in stage 2 to the point of complete inhibition. Similarly, the heparin level rose in stage 1 and fell in stage 2. Regarding vibration as a "chronic stressor," the authors interpret the increased capillary permeability and activation of fibrinolysis in the initial stages of the disease as an adaptation mechanism. The subsequent decrease in fibrinolysis and heparin is apparently due to exhaustion of the enzyme systems resulting from impairment of neurohumoral regulation. The authors state in conclusion that their findings led them to administer heparin and icdine-containing preparations

UNCLASSIFIED PROCESSING DATE--18SEP70
CIRC ACCESSION NO--APO102306
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE FORMATION OF RING SPHERULITES
IN POLY(ETHYLENE ADIPATE) (I) MELTS WAS OBSD. BY POLARIZED LIGHT
MICROSCOPY. THE RADIAL ORIENTATION TOWARDS THE RING CENTER OF THE
CRYSTG. I WAS ALSO OBSD. THE CRYSTAL GROWTH RATE IS INVERSELY
PROPORTIONAL TO THE HEAT OF CRYSTN, EVOLUTION AT THE PERIMETER OF
GROWING PEROYED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"

IMPLACETETEN

USSR

UDC 621.373.826

GANDEL MAN, I. L. SAPA, V. T., TEKHONOV, YE. A., and SHPAK, M. T.

"Transient Generation of Organic Dye Solutions During Picosecond Optical Pumping"

V sb. Nelineyn. protsessy v optike (Nonlinear Processes in Optics -- collection of works), Vyp.2, Novosibirsk, 1972, pp 70-74 (from RZh-Radiotekhnika, No 11, Nov 72, Abstract No 11 D148)

Translation: None.

1/1

ELECTRONICS Amplifiers

UDC: 621,375,121;621,375,4

USSR

TEKSHEV, V. B.

"Concerning the Influence Which the Matching Circuit of a Tunnel Diode Microwave Amplifier has on its Amplitude and Phase Amplitude Response Characteristics"

Tr. Mosk. energ. in-ta (Works of the Moscow Power Engineering Institute), 1972, vyp. 110, pp 137-143 (from RZh-Radiotekhnika, No 8, Aug 72, Abstract No 8D18)

Translation: It is shown that for a predetermined transfer constant, deviations of the characteristics of a tunnel diode amplifier from those taken as the standard can be varied by appropriate selection of the matching circuit; the absolute value of the transfer constant of the amplifier can be held close to the given magnitude at the cost of an increase in phase deviation. The deviation of amplifier characteristics when the capacitance varies is greater than when the conductance varies.

1./1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002203230009-0"

USSR

SHEFTEL', I., TEKSTER-PROSKURYAKOVA. C., LEYKINA, B.

Posistors"

Moscow, Radio, No 3, March 1971, pp 55-56, 58

Abstract: The general characteristics of thermistors with positive temperature coefficients of resistance, called posistors, are discussed. The basic parameters of some Soviet-made posistors are presented and numerous possible applications of them are suggested. It is pointed out that the resistance of posistors depends not only on the temperature of the sample but also on the voltage applied to it. Means of controlling the temperature dependence of the resistance of the posistor by connecting posistors with line resistors or with thermistors with negative temperature coefficients of resistance are discussed. Static volt-ampere characteristics showing the dependence of the current passing through the posistor on the voltage applied to it under conditions of thermal equilibrium between the posistor and the environment are presented on a logarithmic scale. It is noted that these curves characterize the dependence of the posistor resistance on the power dissipated by it. It pointed out that the numerous possibilities of using posistors are based

1/2